



65 Years of DX-cellence

February 2013



BULLetin

The Southern California DX Club Newsletter est. 1947

*"If you need him get
in there and work
him"*

The Southern California DX Club is a group of dedicated men and women active in the amateur radio community who enjoy communicating over the air with other radio amateurs around the world.

The SCDXC strongly supports the DX Code of Conduct. Please visit their website:

www.dx-code.org

The newsletter is published every month and is released to its members about the first of each month. Amateur and DX related letters, news and pictures are welcome and will be published as time and space permit.

Articles may be republished with the recognition of the author and the club. Reuse of copyrighted materials require the original author's permission.

Any questions regarding this newsletter or its articles should be addressed to the editor, Bill:

n6rv@scdxc.org

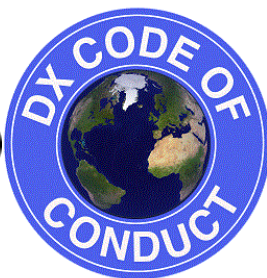
Meetings are held on the second Thursday of the month at 7:30 PM except April, June and December.

Please check the club web site for events and details at:

<http://www.scdxc.org>

If you are in the area please say hello on our repeater:

W6AM/R145.48,(-) 100Hz PL



NCDXF Platinum Contributor

Next Meeting

Thursday February 14th 7:30 PM!

Club Log

Bill Kendrick, N6RV

- **A Tower Fable**
- **Still Time to Renew!**
- **Have You Signed Up for the IDXC?**
- **Yuma Hamfest**
- **DXCC Applications**
- **Use Your Own Computer!!!**

**Making friends all over the world using the magic of Amateur Radio.
Sponsors of the International DX Convention, since 1949**



[Southern California DX Club, Inc.](#)

[Membership Renewal \[\]](#)

[New Member Application \[\]](#)

Date _____

Name _____ Birthday (MM) _____ Call Sign _____

Spouses Name _____ Birthday (MM) _____ Call Sign _____

Mailing Address _____

City _____ State _____ Zip _____

Telephone Home: (_____) _____ - _____ [] Do not list in club directory

Work: (_____) _____ - _____ [] Do not list in club directory

E-mail: _____ [] Do not list in club directory or web site

Have you confirmed 40 CQ Zones? Not yet: [] Yes [] I have a WAZ certificate: []

Spouse? Not yet: [] Yes [] Has a WAZ certificate: []

Have you confirmed 100 Countries? Not yet: [] Yes [] I have a DXCC certificate: []

Spouse? Not yet: [] Yes [] Has a DXCC certificate: []

Are you an ARRL Member? No: [] Yes: [] Life: []

--- **Renewal** Membership, Full or Associate - \$18.00 USD Per Calendar Year (Jan - Dec)

(Additional Family Members \$4.50 USD ea)

Overseas / Supporting Membership - \$18.00 USD Per Calendar Year (Jan-Dec)

New Membership, All Types - \$1.50 Times the Number of Months Remaining in Year

(Example: Join in September, pay 4 x \$1.50 - Family Members @ additional 25%)

BADGES

Small: (1.5"H X 2"W) [] Medium: (2"H X 3"W) [] Large: (3"H X 3.75"W) []

\$10.00 USD ea including postage (to US addresses)

For badge shipping costs to overseas locations contact Mel Hughes, K6SY at k6sy@scdxc.org.

Make checks payable to Southern California DX Club or SCDXC

Mail Membership Fees and/or Badge Fees to:

Mel Hughes, K6SY, 28017 San Nicolas Dr., Rancho Palos Verdes, CA 90275

For club use only

Dues recvd by _____ Amt \$ _____ Date _____ Full Member []

QSLs verified by _____ Date _____ Associate Member []

DXCC _____ WAZ _____ Former Member _____ At-Large Member []

Notes: _____ Supporting Member []

Aug 10, 2010



REGISTER NOW!

International DX Convention

April 19-20-21, 2013

Visalia, California

www.dxconvention.org/

THE PREZ SEZ

Ernie Nairne, N6HY,
President – SCDXC
n6hy@scdxc.org



Hello Everybody!

We had a very good meeting of the board. The budget was passed for the year. Mel, K6SY, and Carl, WU6D, were again confirmed as the co-chairs for the 2014 convention. This is good news! These two know how to put on a good show. Also the repeater chairman, webmaster, historian, and editor were recommitted!

The DXer of the year was picked as well as the Clipperton award. The winners are kept in secret until the awards are given at the 2013 Visalia convention.

Is everyone ready to go to the Convention? Don't forget to sign up for your room and for your place at the banquet!

This sunspot cycle sucks! The count has been down not giving us much of an opening to Europe. There have been a few long path openings of late. At least there are some spots on the web but I do not hear them...

73, and Good DXing!
Ernie Nairne, N6HY
President SCDXC

Treasurer's Report

Club financial information is available on request. Contact the treasurer.

Officer Guidelines

The revised version of the Officers Guidelines is available on our website. See the hyperlink below.

Code of Conduct

SCDXC endorses the [DX Code of Conduct](#)



New DXer Resources

[New DXers Handbook](#)



VICE PRESIDENT'S SHACK

Wayne Spring, W6IRD,
Vice President – SCDXC
W6IRD@scdxc.org

From the VP's Shack

The January meeting was a great kick-off meeting for 2013. The guest speaker was our own Bill Kendrick, N6RV. He gave us a very good overlay of the past year's club and DX activities. Club members were highlighted for their numbers in DX contacts during DXpeditions. Bill did such a good job, he again will be the presenter for the February meeting. His presentation will be on ClubLog.

The club raffle went very well with winners walking away with some great prizes. Thanks in part to John, N6QQ (our shopping elf,) HRO, and the DX Store. A club shirt was included in the raffle. The members will be happy to know that there will be a shirt included in each raffle throughout the year. There was even a raffle prize for the YL's. A beautiful potted orchid plant.

The first Board meeting was hosted at the home of George, N6VNI, and Kris, KC6TOD. The club can expect another successful year for 2013 with our new President, Ernie Nairne at the helm.

Visalia is just a couple of months away. Be sure to get your reservation submitted for the 2013 DX Convention, and your hotel reservations confirmed.

Remember, the February meeting is traditionally for our Valentines. Bring your special YL Valentine and hope she wins one of the special raffle gifts.

See you at the meeting!!!

73, and Good DXing!
Wayne, Spring, W6IRD
Vice President SCDXC

January Prize Drawing

N6CA	Acer 23" Monitor
N6OT	Cannon Printer
K6YUI	HP HD Webcam
KC6TOD	Norton Anti-Virus
K6RIY	Tool Pouch
K6ZMU	Heil Headphones
N6QQ	Weather Station
KE6BUH	Club Shirt
K6VC	Orchid Plant
K6VC	Coax Connectors
N6HY	Sm. Screwdriver
W6ZPL	Plastic Boxes
K6VC	6 ft Tape
WB6OFE	Allen Wrenches
N6IC	ARRL Handbook
W6ZPL	Club Coffee Cup

DXer of The Year

Congratulations
Bob W6ZPL!

Clipperton Award

Congratulations
Kris KC6TOD!

New Members

Please welcome new members:

Clay Davis
AB9A

Carolyn Jacob
KE6BUH

Wild Bill Wiederhold
WB6BFG

Chip Angle
N6CA

Paul Carreiro
N6EV

Jerry Carter
W6JAC

Jim Bridge
K7LA

Tom Ryan
N6NPG

Richard Somers
W6NSV

Jim Pope
KG0PP

Margaret Angle
N6SNA

Ellen Utschig
N6UWW

**Make sure you meet
and greet them at the
next meeting!**

HOLIDAY PARTY 2012



New DXer Resources

New DXers Handbook

http://www.udxa.org/attachments/148_New_DXers_Handbook.pdf

Editors Editorial

Bill Kendrick, N6RV,
Editor – SCDXC BULLetin
n6rv@scdxc.org



Hello Everybody!

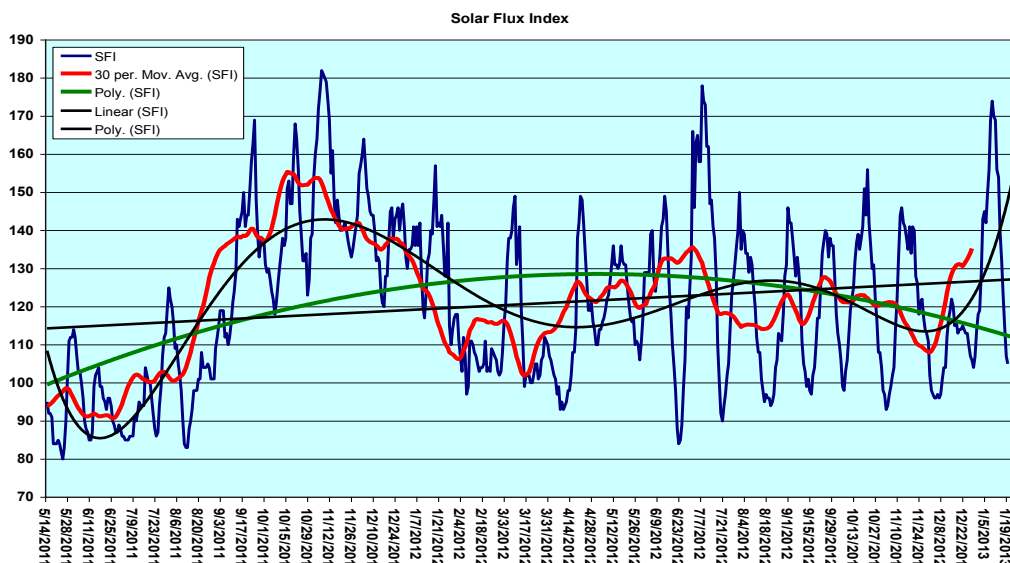
This month we received two very interesting articles. First is the Tower Fable, a pleasant story about how good things go really wrong and then like magic they get better. The second article is actually from an email. The story of the beginning of spread spectrums techniques. It is pretty cool and demonstrates that innovation can come from any corner of the world.

This month I will be presenting on ClubLog.org. If there is time I also have a short EZNEC demo of the M² 40M1L linear loaded dipole. ClubLog is a logging website that we use to track member statistics. There are many facets to this application and I do not want to spoil the presentation by letting too much out. We are going to have a live demo and if you desire we can register anyone who wants to join then and there. If you so desire you can also upload your log to the site. What we will need is a valid email address and if you want to upload your log bring a copy of it in ADIF format on a thumb drive and we will do our best to get it on the site.

I would like to thank George and Kris for hosting the board meeting. We managed to get through it without any significant issues. The first board meeting is huge. It takes hours to get through the agenda and get the budget approved. Thanks to Cathy Gardenia's Quickbooks skills, the task was merely checking off each line item. It was clear and concise. Thanks Cathy! We have a good budget! Now if Congress could only be as efficient maybe they would discover all that money that they have been squirreling away and give it back to us... not!

See you at the meeting!

73,
Bill, N6RV
Editor, SCDXC
SCDXC Past President 2012
Director SCDXC 2013 Board





CONTESTS

**John Schroeder, N6QQ,
Director – Southern California DX Club
n6qq@scdxc.org**

Hello DX Contesters!

This month is the ARRL DX CW contest. It is always a good opportunity to catch a lot of DX that normally is not in the wind. Look carefully before and after the weekend for some interesting openings full of exotic calls!

SSB

10-10 International Winter SSB Contest, -- Feb 2-3 (lots of fun if band opens)
CQ 160 meter SSB Contest -- Feb 22-24 (hard to tell what conditions will be on 160)

CW

ARRL International DX CW Contest -- Feb 16-17 (Second biggest DX contest during Spring)

RTTY

Mexico RTTY Contest -- Feb 2-3 (Easy to work stations, not a lot of competition)
CQ WW WPX RTTY Contest -- Feb 9-10 (Lots of good stuff to work)

For more detail information about February contests, go to this site -- drop down to February
<http://www.hornucopia.com/contestcal/contestcal.html>

N6MJ Contesting at N6WIN's QTH

Here is a fun video of Danny Craig, N6MJ, running Single Operator Two Radio (SO2R) at SCDXC member Tim, N6WIN's QTH during the NAQP CW. He is running two pile ups on two bands while looking at non-ham related stuff on his iPhone. Now that is multitasking! His rate was 129 to 160 Qs/hr!

http://www.n6win.com/videos/N6MJ_SO2R_CW@N6WIN.mp4

Websites to check out:

Check out Announced DX Operations:

<http://ng3k.com/Misc/adxo.html>

The NG3K site has a great deal to offer. Check out the rest of site:

<http://ng3k.com/index.html>

73, John, N6QQ
ARRL / CQ Awards QSL Checker
SCDXC Past President 2011
SCDXC Director 2013 Board
<http://www.qrz.com/db/N6QQ>



DX ACCOMPLISHMENTS

Celebrate the Successes of Our Fellow Members!

A whole bunch of members submitted updates for the standings. Here is the list. How about you?

<u>Call</u>	<u>DXCC</u>	<u>WAZ</u>
K6FG	355 / 340	363 / 197
N6RV	354 / 338	302 / 187
N6GP	299 / 294	
W6VX	348 / 340	
N6HC	346 / 338	
SM5GMZ	337 / 329	345 / 196
W6FL	318 / 305	
K0OK	306 / 304	286 / 173
NK6A	295 / 270	
K6VC	274 / 271	134 / 121
K7MY	272 / 270	
KC6TOD	198 / 198	
N6CA	131 / 131*	

* All on 6 Meters

SCDXC WAZ and DXCC Standings (N6RV)

The first WAZ column is the confirmed zone count on 10 bands 160 - 6 (less 60 meters). The second column is the regular 5BWAZ confirmed count. The following are the codes that follow the two columns and indicate the awards:

M	Mixed
P	Phone
C	CW
R	RTTY
5	5 Band

The first DXCC column is the confirmed entity count with deleted countries. The second column is the confirmed current entity count.

If you have any information to post please go to the on-line webform and update your standing:

<http://www.scdxc.org/dx-update.html>

WAZ STANDINGS

	<u>10B / 5B</u>	<u>Awards</u>
K6ND	378 / 200	M/5
W6SR	369 / 200	M/P/C//5
K6FG	363 / 197	M/P/C/R/5
WA5VGI	357 / 200	M/P/C/5
W8DX	357 / 200	M/5
EU7SA	357 / 200	M/5
N6AW	355 / 200	M/P/C/5
K6YRA	337 / 200	P/5
K6YUI	337 / 200	M/P/C/R/5
WD6L	248 / 200	M/P/5
N6OU	220 / 200	M/5
K6UNR	/ 200	M/P/5
W6VX	352 / 199	
NS6C	198 / 198	
K6GXO	358 / 198	M
SM5GMZ	345 / 196	M/P/C
N6MXU	155 / 193	
K2PLF	191 / 191	
N6RV	302 / 187	M/P/C
KC6X	294 / 187	M/P/C/5
K6LD	314 / 186	M/P/C
W6YOO	308 / 185	M/P/C/5
N6QQ	324 / 185	M/P/C/R
KH6DX/m	210 / 184	
K0OK	286 / 173	
K6SY	246 / 173	P
W6ZPL	237 / 173	M/P
KJ6Y	261 / 172	
KR6C	295 / 171	M/C
AD6KQ	226 / 164	
N6DHZ	214 / 160	P
K6KII	191 / 177	M
KH6MB	181 / 174	
W6DR	227 / 159	
NK6A	152 / 152	M/5
W6NRQ	180 / 147	M/P
WA6BOB	152 / 136	M
W6IRD	151 / 111	M/P
W5DQ	161 / 122	
K6IRD	154 / 126	M/P
WB6PSY	139 / 140	P
K6VC	134 / 121	M/P
KT6LA	132 / 103	
N6HE	130 / 138	
W3SE	102 / 112	
K6IRA	118 / 102	
K6VC	96 / 96	P
W6EA	92 / 86	
N6UC	78 / 78	M
KA6TTV	82 / 67	
N6VNI	86 / 64	
N6GIL	49 / 43	
W6DCK	40 / 40	P
K6JW	40 / 40	M/P
K6YR	39 / 39	
W6DOE	37 / 37	
NZ6L	36 / 36	
W4EF	29 /	
N6AWD		M
N6HC		M/P/C
KB6KTV		P
W6OES		M
K8RD		C

DXCC STANDINGS

	<u>TOT / CUR</u>
K6KII	387 / 340
JA1BK	377 / 338
K6YRA	378 / 340
K6EXO	370 / 338
K6YUI	365 / 340
N6UC	367 / 340
K8DJ	363 / 340
K6IPV	362 / 340
NS6C	360 / 340
W6HT	358 / 338
W6SR	358 / 340
WA6WZO	357 / 340
K8RD	356 / 340
K6KT	355 / 340
N6AW	355 / 337
K6FG	355 / 340
K6GXO	355 / 340
K2PLF	354 / 340
N6RV	354 / 338
W8DX	353 / 340
W6IRD	352 / 336
W6OES	351 / 334
W6AUQ	350 / 340
W6YOO	349 / 340
KC6X	349 / 340
W6KK	348 / 340
W6VX	348 / 340
WA5VGI	348 / 340
N6AWD	348 / 338
WB6PSY	348 / 337
N6QQ	348 / 333
K6ND	347 / 340
W6OM	347 / 337
W6ENZ	347 / 338
N6HC	345 / 337
K6LD	344 / 338
EU7SA	343 / 336
W6DCK	342 / 336
KR6C	341 / 339
KB6KTV	340 / 335
N6MG	339 / 331
N6OU	338 / 330
SM5GMZ	337 / 329
N6HY	333 / 329
K6UNR	333 / 332
K2IXQ	333 / 329
AD6KQ	328 / 328
KM6HB	332 / 327
KJ6Y	327 / 323
W6FL	318 / 305
W6ZPL	317 / 317
K6SY	312 / 310
K0OK	306 / 304
W6HB	303 / 295
N6MXU	301 / 297
N6GP	299 / 294
WD6L	295 / 295
NK6A	295 / 270
N6DHZ	288 / 284
K6IRA	286 / 286
W6NRQ	285 / 281
W6DR	282 / 278
K6JW	277 / 273
K6VC	274 / 271
K7MY	272 / 270
N7CQQ	268 / 266
K6DJ	261 / 259
K6IRD	260 / 250
N6WIN	258 / 253
KT6LA	248 / 246
K6YR	244 / 244
W3SE	240 / 237
K6HCJ	235 / 235
W5DQ	225 / 220
N6VNI	223 / 223
KN6VF	223 / 223
ZL3TE	222 / 220
WA6BOB	202 / 198
KC6TOD	198 / 198
W6DOE	191 / 189
N6RI	189 / 180
W6VWV	181 / 180
N6HE	178 / 171
K6LX	175 / 175
W6EA	152 / 152
KA6TTV	149 / 149
K6OGO	142 / 142
W4EF	132 / 132
WA6NOL	127 / 130
N6CA	131 / 131*
WB6PJC	100 / 100
NZ6L	27 / 27

RUMORS ON THE BAND

A plethora of announcements, rumors, and serious DX fun

February is the ARRL DX CW contest. Remember that the week before and after is a great time to work a ton of DX on the odd bands and modes! Also this month is chock full of DXpeditions. Do not forget the numbers are improving. Maybe we'll activity on 12 - 6M!

The big DX this month is [Burkina Faso](#), [Guinea Bissau](#), [Burundi](#), & [Clipperton Island](#). There will be overlapping DXpeditions so keep your radio on and work these guys! It will be a fun month!

Also of note is the big [5X8C Dxpediton to Uganda](#) by the Provins DX Club F6KOP. There will be six stations with 2 teams for CW & SSB plus an RTTY team. It looks like a very serious operation.

Gary, WB6PSY, dropped me an email. It appears that Ralph, H44RK is looking for 3 hams interested in sailing around the Pacific with him on a Solomon Islands IOTA Dxpediton. He needs one with CW experience. For further details please contact Ralph via ralph.honiara@gmail.com

CROZET & KERGUELEN

Gildas, TU5KG is leaving soon on a fishing trip to the South Indian Ocean. He may stop at these two very rare islands. If he does and he is active his call signs will be FT5XT for Kerguelen and FT5WQ for Crozet. Hopefully propagation and opportunity will fall in our laps! Keep an ear out. I am sure he will be very popular if he shows up!

Blue Information indicate particularly rare entities and **Red information** indicate SCDXC member attended DXpedition. As always you have to turn on your radio to work them.

Call	QTH	Start Date	End Date	Information	Website
6W2SC	Senegal	Now	3/10/2013	HA3AUI, 40 - 10M CW	
J5UAP	Guinea- Bissau	Now	3/10/2013	HA3AUI, 40 - 10M CW	
S79	Seychelles	2/6/2013	3/11/2013	CX3AN 80 - 6M SSB CW	
5X8C	Uganda	2/8/2013	2/25/2013	Big Dxpediton 20 Operators & 6 Stations	
J38RF	Grenada	2/6/2013	3/8/2013	KE4TG Mostly Digital some SSB & CW	
J52HF	Guinea- Bissau	2/10/2013	3/2/2013	I23BUR IK3RBE IK3VVD IZ3STA IK3VZJ 80-6M SSB	
V63ZM	Micronesia	2/13/2013	2/23/2013	5B4AGN 80 - 10 SSB CW	
A31WH	Tonga	2/13/2013	3/4/2013	DJ9KH 80 - 10M SSB CW	
9U4U	Burundi	2/14/2013	2/23/2013	ON PA GM team 160-10m SSB CW RTTY	http://www.9u4u.be/
XV2DLH	Vietnam	2/15/2013	2/26/2013	DK7PE DH6ICE DH0RAK DK7TF DK8ZZ 80 - 10M SSB CW	-
5B/UW2M	Cyprus	2/16/2013	2/17/2013	ARRL CW Contest	-
H44KW	Solomon Islands	2/18/2013	2/28/2013	G3SWH G3RTE 80-10M CW	http://www.g3swh.org.uk/h44kw.html
XT1T	Burkina Faso	2/21/2013	3/7/2013	I1HJT I2YSB IK2CIO IK2CKR IK2DIA IK2HKT IK2RZP JA3USA 80 - 10M SSB CW	http://www.i2ysb.com/idx/
TX5K	Clipperton	2/28/2013	3/10/2013	KK6EK Expedition 160 - 6M SSB CW RTTY PSK	http://www.cordell.org/CI/index.html

Useful DX Sites

The Daily DX

www.dailydx.com/

Announced DX Ops

www.ng3k.com/misc/adxo.html

DX Coffee

<http://www.dxcoffee.com/eng/>

DXing.info

www.dxing.info/dxpeditons/

DX 425 News

www.425dxn.org/dxped/

Dx-info.de

www.dx-info.de

DX Italia DX News

www.marioi2mqp.it

DH9SB Weekly DX Calendar

<http://www.dx-info.de>

N0HR DXpedition Map

www.n0hr.com/wk34/

The DX Zone

www.dxzone.com/catalog/DX_Resources/



A Tower Fable

by Cathy Gardemias, K6VC



Once upon a time not too far in the past there came to be a tower dragon that began chewing on cables and successfully dropped the tower and destroyed the Monster antenna of two hams WU6D and K6VC in the Month of May 2012. The OM and YL ran to escape injury only to turn and see the dragon flee from site and looked up in surprise at the damage done. At first the two hams felt that the dragon had won, defeated they were. How could they fix this, how could they raise

this tower once more to DX and rag chew with the world? A few communications with some fellow ham friends questioning us "Don't ye have on ye home owner's insurance a policy for "other structures?" A quick investigation found that the policy did in fact hold such a statement!

Alas, a communication sent to the agent proved to be a great success and within a couple of days proved worthy of said contact. Not only did the policy replace said tower a mere pence of deductible, but replaced antenna too.

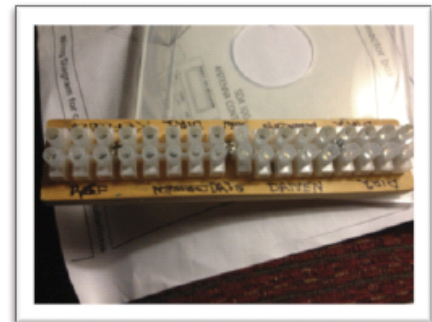


With smiles on WU6D & K6VC's faces, the adventure began on a long road to ordering a new tower (US Tower 572) and Steppir DB36 antenna.

The wait! The tower was finished in August and the hams went up to pick their tower up and bring it back home. A small crew was assembled (WU6D & K6VC) and technical advice from Rick N6ONF to put all the magical parts together and ready the tower for rising. Wilts they

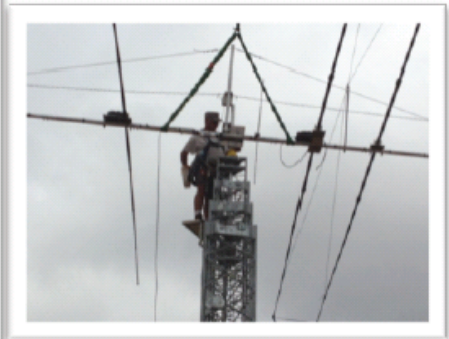
waited for the antenna which was not due to arrive till late September, they checked out all the coax cables, rotator and wiring to make sure all would perform well at the proper time. New cable (The DX Store) was purchased and ran into the ham shack in preparation.

The Antenna arrives the 3rd week of September and the beginning of wits takes place. WU6D spends most of the days putting the puzzle together while his lovely lass works till 2pm each day. She helps until dusk putting other pieces together, making phone calls, asking where is this and what does this part do? Steppir was in the middle of redoing the manual and there were many pages of addendums. The 80-meter dipole is



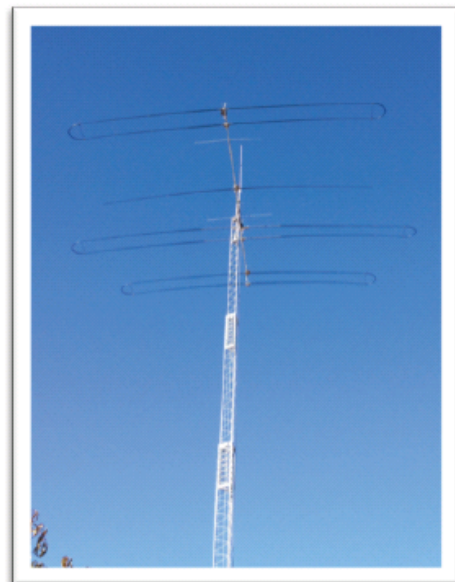
now ready to be birched upon its pedestal (winding of wire around a rope from one end to a connector box then from the other end to the connector box. Great success, now for the trusses secured to the loops and also a truss to the boom. Now comes the fun. Getting the DB36 upon its nest.

Ye trusted friend and extremely busy K6JY is booked solid until mid November, what! There are contests out there to be had and DX stations to work, there has to be a way! A gathering of local hams; Larry WB6AZB, Paul KI6ZZC, Judy KI6BFW, ex-husband of K6VC, Rick N6ONF and their Son Bill came to raise the tower and antenna on October 20, 2012. Here are photos of that event and a thank you for the support that was given. This day was a cold day and rain did not drop which was nice.



Tower climber is Carl WU6D by the way he is standing on a step that was made by Rick N6ONF (safety first). Boom operator is my Son Bill. Guide lines; WB6AZB, KI6ZZC, and me K6VC and tech and orchestrator on how things would be achieved Rick N6ONF.

Next is bravery without a shadow of a doubt. Here is a picture that was taken on a clear day



Here is the best picture of all captured the next day after some rain fell. This rainbow can be seen on both sides "Irish Luck" The question is "Where's the pot O' Gold?"

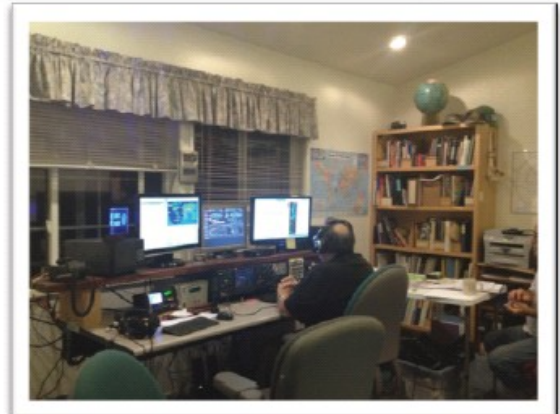


One other event took place one week after our tower went down. A horse took out our 160 vertical antennas. We had blessed friends help us put back the downed antenna and re-align the other 160 antennas also. Here is a photo of the complete Antenna Farm. Thanks to KJ6Y for parts, W6OAR for part trades, and K6SY for more research and materials for the 160 antennas.

Picture is a little light: Antennas are Northeast, West & South



We had a test run on a contest in November and we were very successful in working a lot of different countries and states on both the DB36 and 160 antennas. In early December John N6QQ came over and we worked the ARRL 160 contest. Maybe I should say John worked most of it, which was great! He put the antennas and our radio through the test. Here's JOHN



73's and good DX Carl W46D & Cathy K6VC

A TRUE STORY

(This story came from Kris, KC6TOD, via an email. It is one of the more detailed accounts I have read ... ed.)

Today one form of "Spread Spectrum" is called CDMA Code Division Multiple Access. QualCom the company that developed it into the system used in our cell phones today holds the patents. AT&T supported QualCom in the 80's and it's a very intricate method of modulating a radio signal. On a Spectrum Analyzer it looks like a rise in the noise level across a portion of the radio spectrum it's operating in. It took quite a brain indeed to come up with a system as complicated as CDMA is.

If you over 60 years old, this will be especially interesting to you...

In 1933, a beautiful, young Austrian woman took off her clothes for a movie director. She ran through the woods... naked. She swam in a lake... naked. The most popular movie in 1933 was King Kong. But everyone in Hollywood was talking about that scandalous movie with the gorgeous, young Austrian woman. Louis B. Mayer, of the giant studio MGM, said she was the most beautiful woman in the world. The film was banned practically everywhere... which of course made it even more popular and valuable. Mussolini reportedly refused to sell his copy at any price.

The star of the film, called Ecstasy, was Hedwig Kiesler. She said the secret of her beauty was "to stand there and look stupid." In reality, Kiesler was anything but stupid. She was a genius. She'd grown up as the only child of a prominent Jewish banker. She was a math prodigy. She excelled at science. As she grew older, she became ruthless, using all the power her body and mind gave her.

Between the sexual roles she played, her tremendous beauty, and the power of her intellect, Kiesler would confound the men in her life... including her six husbands, two of the most ruthless dictators of the 20th century, and one of the greatest movie producers in history.

Her beauty made her rich for a time. She is said to have made - and spent - \$30 million in her life. But her greatest accomplishment resulted from her intellect... and her invention continues to shape the world we live in today. You see, this young Austrian starlet would take one of the most valuable technologies ever developed right from under Hitler's nose. After fleeing to America, she not only became a major Hollywood star... her name sits on one of the most important patents ever granted by the U.S. Patent Office.

Today, when you use your cell phone or, over the next few years, as you experience super-fast wireless Internet access (via something called "long-term evolution" or "LTE" technology), you'll be using an extension of the technology a 20-year-old actress first conceived while sitting at dinner with Hitler.

At the time she made Ecstasy, Kiesler was married to one of the richest men in Austria. Friedrich Mandl was Austria's leading arms maker. His firm would become a key supplier to the Nazis. Mandl used his beautiful young wife as a showpiece at important business dinners with representatives of the Austrian, Italian, and German fascist forces. One of Mandl's favorite topics at these gatherings - which included meals with Hitler and Mussolini - was the technology surrounding radio-controlled missiles and torpedoes. Wireless weapons offered far greater ranges than the wire-controlled alternatives that prevailed at the time. Kiesler sat through these dinners "looking stupid," while absorbing everything she heard.

As a Jew, Kiesler hated the Nazis. She abhorred her husband's business ambitions. Mandl responded to his willful wife by imprisoning her in his castle, Schloss Schwarzenau. In 1937, she managed to escape. She drugged her maid, slipped out of the castle wearing the maid's clothes, and sold her jewelry to finance a trip to London. She got out just in time. In 1938, Germany annexed Austria. The Nazis seized Mandl's factory. He was half Jewish. Mandl fled to Brazil. Later, he became an advisor to Argentina's iconic populist president, Juan Peron.

In London, Kiesler arranged a meeting with Louis B. Mayer. She signed a long-term contract with him, becoming one of MGM's biggest stars. She appeared in more than 20 films. She was a co-star to Clark Gable, Judy Garland, and even Bob Hope. Each of her first seven MGM movies was a blockbuster.

But Kiesler cared far more about fighting the Nazis than about making movies. At the height of her fame, in 1942, she developed a new kind of communications system, optimized for sending coded messages that couldn't be "jammed." She was building a system that would allow torpedoes and guided bombs to always reach their targets. She was building a system to kill Nazis.

By the 1940s, both the Nazis and the Allied forces were using the kind of single-frequency radio-controlled technology Kiesler's ex-husband had been peddling. The drawback of this technology was that the enemy could find the appropriate frequency and "jam" or intercept the signal, thereby interfering with the missile's intended path.

Kiesler's key innovation was to "change the channel." It was a way of encoding a message across a broad area of the wireless spectrum. If one part of the spectrum was jammed, the message would still get through on one of the other frequencies being used. The problem was, she could not figure out how to synchronize the frequency changes on both the receiver and the transmitter. To solve the problem, she turned to perhaps the world's first techno-musician, George Anthiel.

Anthiel was an acquaintance of Kiesler who achieved some notoriety for creating intricate musical compositions. He synchronized his melodies across twelve player pianos, producing stereophonic sounds no one had ever heard before. Kiesler incorporated Anthiel's technology for synchronizing his player pianos. Then, she was able to synchronize the frequency changes between a weapon's receiver and its transmitter.

On August 11, 1942, U.S. Patent No. 2,292,387 was granted to Anthiel and "Hedy Kiesler Markey," which was Kiesler's married name at the time.

Most of you won't recognize the name Kiesler. And no one would remember the name Hedy Markey. But it's a fair bet that anyone reading this newsletter of a certain age will remember one of the great beauties of Hollywood's golden age ~ Hedy Lamarr. That's the name Louis B. Mayer gave to his prize actress. That's the name his movie company made famous.

Meanwhile, almost no one knows Hedwig Kiesler - aka Hedy Lamarr - was one of the great pioneers of wireless communications. Her technology was developed by the U.S. Navy, which has used it ever since.

You're probably using Lamarr's technology, too. Her patent sits at the foundation of "spread spectrum technology," which you use every day when you log on to a Wi-Fi network or make calls with your Bluetooth-enabled phone. It lies at the heart of the massive investments being made right now in so-called fourth-generation "LTE" wireless technology. This next generation of cell phones and cell towers will provide tremendous increases to wireless network speed and quality, by spreading wireless signals across the entire available spectrum. This kind of encoding is only possible using the kind of frequency switching that Hedwig Kiesler invented.

http://en.wikipedia.org/wiki/Hedy_Lamarr



(Actually what Hedy developed is the form of spread spectrum known as Frequency Hopping (FHSS). She actually came up with the idea from the piano. The signal was hopped using a series of tones (frequencies). Her technique used 88 tones, the same as the number of keys on a standard piano. CDMA uses direct sequence spread spectrum (DSSS). DSSS uses a code sequence to spread the desired signal. In any event Hedy's inventions launched the secure anti-jam technology known today as spread spectrum communication. The benefits of this technology extends beyond will full jamming and is used in commercial technology to mitigate propagation issues like rapid fading.... Ed.)

SPURIOUS OUTPUTS

Comments, Announcements, and Interesting Tidbits Submitted by Members

Birthdays

Here are the February birthdays! Many happy returns and may you have many more!

W6CCC	Jerry	NZ6L	Joe	N6VNI	George
W6ENZ	Rick	K6NQY	Lloyd	K6ZMW	Joe
KD6HYN	Linda	EU7A	Andrey	W6ZPL	Bob
KJ6HZ	John	K6VC	Cathy		

Alpha Needs A Home (W6AQ)

FOR SALE: Alpha 87A. An old one but a good one. Used very little as I have been a QRPer for the past half-dozen years. Many hams, including me, consider the 87A to be the best amplifier ever made. I've decided to simplify my station. This amp has been treated well. I never ran it into the red. Pick up preferred. You may come try it out in Hollywood. Includes original manual, shipping boxes, spare fuses, etc. \$3,850.00 firm. Dave Bell, W6AQ@aol.com.

Don Be Mountaintopping! (NK6A)

Don and fellow ham K6MA went to Temescal peak in the Santa Monica Mountains. That is a hike up to 2126 feet. If you have not heard Don has a KX3 and loves it. Here is the result of the hike:

NK6A	K6MA
KX3	FT 217
20 CW	20 SSB
21 Q's at 5W	No QSOs
VE1 was the furthest.	



A Renewed Club Member is back on the Air (K6RO)

Past president and DXer of the Year award winner Larry Shapiro, K6RO, is back on the air after a long hiatus. Larry put up an R8 with the help of Joe, K5KT. He should be loud as he is just above our heads in Rancho Palos Verdes. Larry plans to buy a house on the hill in a ham friendly area and put up some serious antennas. Hopefully this will be very soon!



SPURIOUS OUTPUTS

Comments, Announcements, and Interesting Tidbits Submitted by Members

Important Message Regarding Digital DXCC Applications (N6QQ)

This is important information regarding the use of the new digital DXCC application system and where the application originates from:

If someone comes to you with cards and wants to use the new Digital DXCC system, and they want you to do it for them, please DO NOT do the application from your computer. Remember, when you sign onto the page from your computer you are signed in as you, not the applicant. Anything you do in the digital system, even if you type in the applicants data, it will be stamped from your account and when DXCC goes to import the application this will cause the application to be imported into your account, not the applicants.

In short, only the applicant must do the digital application process and it must only be done from their personal computer. When they come to you it should only be with a completed application with just the application form and cards to be checked. You must not do the actual application for them from your computer.

It is also a good idea that if someone brings to you a digital application that you confirm with them that the application was done from their personal computer and not from someone else. Any digital application not done from the applicants personal account may cause this problem.

Please contact me if you have any questions about this.

73 es DX!

Bill Moore NC1L
Awards Branch Manager
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DXCC Web Site: www.arrl.org/dxcc
Blog: <http://www.arrl.org/awards-blog>
Twitter: [arrl_dxcc](https://twitter.com/arrl_dxcc)

ZS8 - MARION ISLAND (Pierre, ZS1HF/ZS8M)

I have just been notified by ZS1BCE, David that he has been appointed as the new radio technician for Marion Island from April 2013 until May 2014. David departs Cape Town on 15 April 2013 and will only be active once the ship departs with the old team about 4 weeks later. He will be active on most HF bands, SSB only. David returns to Marion Island for the second time, but the first as a radio amateur. He conducted a tour of duty as a radio operator in 1995 / 1996 as part of the Marion M52 Team. No call sign as been applied for yet, but David wishes to apply for ZS8D. More details to follow once the call sign has been allocated.

His QSL Manager will be Pierre Tromp, ZS1HF / ZS8M. All enquiries strictly via ZS1HF.

73,

Pierre D. Tromp, ZS1HF / ZS8M

2013 Arizona State Convention

9th Annual

Yuma Hamfest

Yuma, Arizona

Feb. 15 & 16, 2013

Yuma County Fairgrounds
2520 East 32nd Street, Yuma, Arizona



www.yumahamfest.org

Check the Website for Additional Information
and a Current Schedule of Activities and Seminars

Gates Open for Camping Thursday, 2 pm Vendor Setup Friday, 7 am - Noon	Event Hours Friday, Noon - 5 pm Saturday, 8 am - 5 pm	Buzzard BBQ & Grand Prize Drawing Saturday Night 6:00 - 8:00 pm
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Vendors & Exhibitors
Consignment Sales
License Testing
Hourly Door Prizes
On-site RV Camping
Famous Buzzard BBQ
ARRL Speaker
\$5.00 Admission

Tailgating (Swap Meet)
Full Seminar Schedule
DXCC Card Checking
Incredible Grand Prizes
Emergency Preparedness
Admission Prize
Hospitality Area
Antenna Clinic & T-Hunt

Hamfest Talk-In Frequency: 146.840 (-) PL 88.5 Hz

Email Contact: info@yumahamfest.org



We are proud to have the Amateur Radio
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our event.

The Yuma Hamfest is an American Radio
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WHEN:

FEB. 8 FROM 6 PM - 9 PM

FEB. 9 FROM 8 AM TO 4 PM

FEB. 10 FROM 8 AM TO 3 PM.

VE TESTING WILL BE ON SUNDAY FEB. 10 FROM 1 PM TILL FINISHED.

WE WILL TAKE WALK-INS TO UP GRADE YOUR LICENSE.

LOCATION:

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COST:

BOY SCOUT, OR GIRL SCOUT \$10.00

ADULT \$20.00

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INSTRUCTORS

VI - W6CBA

DON - W6KAT

PAUL - KI6EL

BILL - WA6POK.

LIGHT REFRESHMENTS WILL BE SERVED.

PARTICIPANTS MUST PRE-REGISTER BY CALLING THE WHITTIER DISASTER PREPAREDNESS PROGRAM (562) 567-9830.

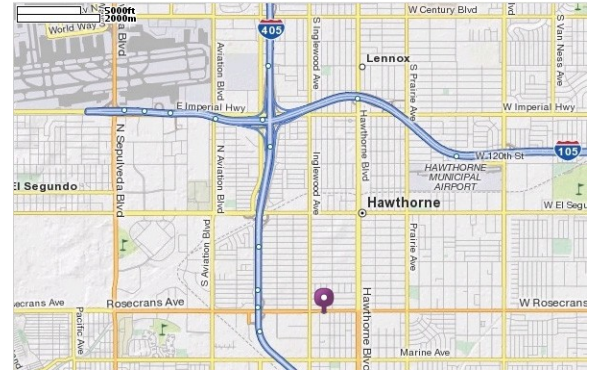
SCDXC Meeting Location

SCDXC Meets at WEMS Inc. on Rosecrans in Hawthorne. It is very close to the 405 Freeway however the entrance can be missed. The major landmark is the tower with the SteppIR antenna on top.

The driving directions to WEMS, Inc are as follows:

The address is: [4650 West Rosecrans Avenue, Hawthorne, CA. \(South side of street\)](#)

1. Coming South on the I-405 take the second Rosecrans (Rosecrans East) off ramp. At the bottom of the off ramp turn right and proceed to the next traffic light and turn right again on to Rosecrans Avenue. Go under the freeway and proceed East on Rosecrans past Inglewood Avenue. Go 1-1/2 blocks past Inglewood Avenue and make a right turn into the driveway between a one story building and a two story building with a tower and SteppIR antenna. Drive past the gate and park in any open parking space. We will be meeting in the one story building you just drove past. If you get to traffic light East of Inglewood avenue turn around and go back. Look for the antenna.
2. Coming North on the I-405 take the first Rosecrans off ramp (Rosecrans East) and turn right at the bottom of the off ramp onto Rosecrans Avenue. Go 1-1/2 blocks past Inglewood Avenue and make a right turn into the driveway between a one story building and a two story building with a tower and SteppIR antenna. Drive past the gate and park in any open parking space. We will be meeting in the one story building you just drove past. If you get to traffic light East of Inglewood avenue turn around and go back. Look for the antenna
3. Coming West on CA-91 merge on to I-110 South and then North onto the I-405. Once you are Northbound on the I-405 follow the directions in #2 above.
4. Coming West on the I-105 Exit the Hawthorne Blvd. off ramp. At the end of the very long off ramp turn left onto Hawthorne Blvd and proceed South to Rosecrans Avenue. Turn right on Rosecrans Avenue and proceed West. Just past the first traffic light after your turn onto Rosecrans move into the 2-way left turn lane and turn in the driveway between the two story building with tower/antenna and the one story building. As you drive down Rosecrans you should be able to see the tower on the two story building. Drive past the gate and park in any open parking space. We will be meeting in the one story building you just drove past.
5. If you live in the South Bay or Palos Verdes you are on your own.
6. If you would like to try Metro Light Rail, see Mel Hughes for information. WEMS is an easy walk from a Metro Green Line Station, or we can arrange a ride from the station to WEMS.



Pre-Club Meeting Dinner

Club members and visitors often meet before the meeting and enjoy a meal. Lately many of us have been going to #1 Buffet at 14418 Hawthorne Blvd, Lawndale, CA 90260, (310) 644-4007. The restaurant is just South and East of WEMS. Another group meets at the Denny's on the corner of Inglewood Avenue and Rosecrans Avenue. This is stones throw West of WEMS. For those interested in fine dining some of the best restaurants in the South Bay are located on Rosecrans just West between the 405 and Sepulveda (PCH). The Manhattan Beach area is a target rich food environment!



Meet the 2013 SCDXC Board



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N6HY**



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W6IRD**



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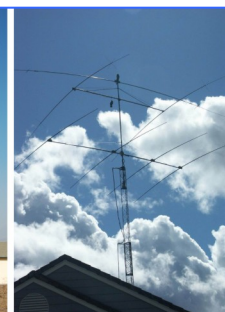
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